CLAIMS

I claim:

1. Device (110, 210, 310, 510) for the automated detection of mountings among animals, intended to be worn by an animal (100), characterized by the fact that it includes:

a fastener (105, 505) on said animal,

a means of detection (140) of a mounting attempt by said animal, on a female animal (120),

a means of identification (145, 180, 345, 580) of an electronic tag placed in the organism of the female animal, activated by said means of detection and/or means of identification of the female animal by processing an image of at least a part of the female animal activated by said means of detection.

2. Device as per claim 1, characterized by the fact that it includes a means of identification (145, 180, 345, 580) of an electronic tag placed in the organism of the female animal, activated by said means of detection.

3. Device as per claim 2, characterized by the fact that said electronic tag is placed in the digestive tract of the female animal.

4. Device as per any of claims 2 or 3, characterized by the fact that it includes a memory of identifications of excluded electronic tags and a means of exclusion of identifications of electronic tags capable of not taking into account identifications of tags stored in said memory.

5. Device as per any of claims 2 to 4, characterized by the fact that the means of detection and the means of identification are capable of emitting a magnetic field energizing the electronic tag placed in the organism of the female animal to energize said electronic tag.

6. Device as per any of claims 2 to 5, characterized by the fact that the means of identification includes a means for writing onto the electronic tag placed in the organism of the female animal.

7. Device as per any of the claims 2 to 6, characterized by the fact that the fastener includes a harness positioning – at the moment of a mounting attempt, an antenna of the means of identification (145, 180, 345, 580) of an electronic tag placed in the organism of the female animal in place to receive signals emitted by said electronic tag placed in the organism of the female animal.

8. Device as per any of the claims 1 to 7, characterized by the fact that the means of detection (140) of mounting attempts includes a verticality sensor (740E).

9. Device as per any of the claims 1 to 8, characterized by the fact that the means of detection (140) of mounting attempts includes a sensor for the pressure (740A) exerted on the back of the female animal, said pressure sensor being placed under the belly of the animal (100) wearing the device.

10. Device as per any of the claims 1 to 9, characterized by the fact that the means of detection (140) of mounting attempts includes a temperature sensor (740B), said temperature sensor being placed under the belly of the animal (100) wearing the device.

11. Device as per any of the claims 1 to 10, characterized by the fact that the means of detection (140) of mounting attempts includes a motion sensor (740D) [sensing the movements] of the animal (100) wearing the device.

12. Device as per any of the claims 1 to 11, characterized by the fact that it includes a means of identification of the female animal by processing an image of at least one part of the female animal, said means of identification being activated by said means of detection.

13. Device as per any of the claims 1 to 12, characterized by the fact that it includes a means for determining the time and date (170, 570) of each mounting attempt.

14. Device as per any of the claims 1 to 13, characterized by the fact that it includes a means of transmission (145, 150) of at least one part of the identifications of the female animals identified by the means of identification.

15. Device as per any of the claims 1 to 14, characterized by the fact that it includes a means for processing the identifications of the female animals capable of determining at least one result of statistical analysis of mounting attempts for each female animal.

16. Process as per claim 15, characterized by the fact that the means for processing the identifications of female animals is capable of determining said result bases on a calibration of the libido of at least one animal of said fraction of the animals in the herd.

17. Device for the automated detection of mountings between animals, intended to be placed in the organism of a female animal, characterized by the fact that it includes:

a means of detection (140) of a mounting attempt on said female animal by another animal,

a means for processing said mounting attempt, and

a means for transmitting the result of the processing.

18. Process of automated detection of mountings among animals, characterized by the fact that it includes:

a step of installation (400), on a fraction of the animals of the herd, each animal (100) of said fraction being liable to make said mounting attempt, of a means for detecting mounting

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attempts (140, 345) on a female animal and of a means for identifying (145, 180, 345, 580) said female animal,

a step of detection (430) of a mounting attempt by said animal, on a female animal (120) and

in the event of detection of a mounting attempt, a step of identification (435) of an electronic tag placed in the organism of the detected female animal or of identification of the female animal by processing of an image of said female animal.

19. Process as per claim 18, characterized by the fact that, during the step of identification (435) of an electronic tag placed in the organism of the female animal, an electronic tag placed in the organism of the female animal is identified.

20. Process as per any of the claims 18 or 19, characterized by the fact that it includes a step of calibration (905 to 930) of the libido of at least one animal of said fraction of animals of the herd.